GLAZUNOV, V.M.; IVANOV, K.I.; KLOCHKO, N.A.; KUDRYA, N.A.; USHKOV, N.N.

Foreign tools for drilling slim holes. Gor.zhur. no.8:39-42
Ag '62.   (MIRA 15:8)

(Boring machinery)

KLOCHKO, Nikolay Aleksandrovich

Shreyner, Leonid Aleksandrovich, Petrova, Ol'ga Pavlovna, Yakushev,
  Vasiliy Petrovich, Portnova, Anna Timofeyevna, Sadilenko, Konstantin
  Mikhaylovich, Klochko, Nikolay Aleksandrovich, Pavlova, Nina Nikola-
  yevna, Balandin, Pavel Stepanovich, Spivak, Aleksandr Ivanovich

Mekhanicheskiye i abrazivnyye svoystva gornykh porod (Mechanical and
  Abrasive Properties of Rocks) Moscow, Gostoptekhizdat, 1958. 200 p.
  3,000 copies printed.

Gen. Ed.: Shreyner, L.A., Professor; Executive Ed.: Kovaleva, A.A.;
  Tech Ed.: Polosina, A.S.

PURPOSE: The book is intended for scientists, engineers and technicians
  engaged in drilling operations in the petroleum and mining industries.

COVERAGE: The book describes methods of evaluating the mechanical pro-
  perties of rocks by means of the stamp-pressing technique. This meth-
  od makes it possible to determine simultaneously the hardness, plas-

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Mechanical and Abrasive (Cont.)   976

ticity, and elastic modulus of rocks. Rocks of different mineralo-
gical composition and structure are described and classified by their
abrasive properties. Basic factors in the relationship of wear on
the mineralogical composition, load, and speed of rotation are shown.
A classification table of sedimentary rocks is also given. The in-
formation provided in the book should promote the better use and de-
sign of drilling instruments, and operational procedures in different
geologic media. Professor V.V. Zaleskiy is cited as having made im-
portant contributions to this field. There are 64 diagrams, 70 tables,
and 39 bibliographic references, of which 28 are Soviet, 3 German and
8 English.

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Mechanical and Abrasive (Cont.)   976

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Mechanical and Abrasive (Cont.)   976

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Card 5/6

KLOCHKO, N.A., inzh.; MAKHOTKIN, M.V., inzh.; SUSLOV, Ye. I., inzh.

Welding of hard alloy tips with intermediate layers onto de-
tachable rock drill bits. Gor. zhur. no.4:33-35 Ap '60.
(MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh
splavov, Moskva.
: (Rock drills)
(Hard facing)

KLOCHKO, N.A.; SHREYNER, L.A.

Using bits with cutters made of hard-alloy grains in thermomechanical
core drilling. Izv.vys.ucheb.zav.; geol.i razv. 6 no.3:113-117
Mr '63.   (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov.
                          (Core drilling)

KUCHEROVA, N.K.; VIDOMENKO, V.R.; KLOCHKO, N.A. [Klochko, N.O.]

New toe puff materials for cemented footwear. Leh. prom. no.3:
29-30 Jl-S '65.   (MIRA 18:9)

KLOCHKO, N.A.; MAKHOTKIN, M.V; MOYNOVA, N.V.

Selecting a type of steel and conditions of brasing hard alloy
tips in the manufacture of bits for air hammers. Ogr. shur.
no. 12:41-44 D '65.   (MIRA 18:12)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut tverdykh
splavov, Moskva.

KLOCHKO, Petr Dmitriyevich; GRECHKO, G.S.[Hrechko, H.S.], red.;
LIFANOVA, M.I.[Lymanova, M.I.], tekhn. red.

[Fattening cattle on a specialized farm] Vidhodivlia khu-
doby v spetsializovannomu hospodarstvi. Kharkiv, Kharkivs'-
ke knyshkove vyd-vo, 1963. 24 p. (MIRA 17:1)

KLOCHKO, P.P., dotsent, kandidat tekhnicheskikh nauk.

Designing compensated three-dimensional links. Nauch.trudy NPI
30(44):149-173 '55.   (MLRA 9:11)
              (Machinery, Kinematics of)

KLOCHKO, V.A., inzh.; KARIUS, N.G., inzh.; NEGRUTSKIY, B.F., inzh.;
OLENEV, G.A., inzh.

Automatic ventilation units in mines. Mekh. i avtom. proizv.
17 no.12:8-11 D'63.   (MIRA 17:2)

KLOCHKO, V.A.

At the Yama Dolomite Combine. Ogneupory 29 no.7:292-293   '64.
(MIRA 18:1)

1. Yamskiy dolomitnyy kombinat.

KLOCHKO, V.G., polkovnik, voyennyy letchik pervogo klassa

Preparing for flights according to the type of mission.
Vest.Vozd.Fl. no.4:35-38. Ap '60.   (MIRA 13:8)
                    (Flight training)

KLOCHKO, V.P., inzhener.

Reinforced concrete block conduits for wire and cables,.Prom. energ.
12 no.4:20-24 Ap '57.   (MIRA 10:5)

1. Trest "Kabelektromontazh".
        (Concrete conduits) (Electric wiring)

KLOCHKO, V.S

Nomogram for selecting the form of triangle used in determining inaccessible distances. Geod. i kart. no.8:71-72 O '56.
(Triangulation)   (MLRA 10:1)

KLOCHKO, Y.S.

Letters to the editor. Geod.i kart. no.9:75-77 S '57. (MIRA 10:11)

1. Vodokanalproyekt, Khar'kov.
(Cartography)

KLOCHKO, V.S.

Vertical alignment of structures. Prom. stroi. 42 no. 6:
43-45 '65.   (MIRA 18:12)

93-4-10/20

AUTHOR: Klochko, V. S.

TITLE: Some Indices Reflecting the Efficiency of Pressure-
             Maintainance Methods Used at the Krasnodarneft'
             Oil Fields (Nekotoryye pokazateli ekonomicheskoy
             effektivnosti metodov podderzhaniya plastovogo davleniya
             na promyslakh Krasnodarnefti)

PERIODICAL: Neftyanoye Khozyaystvo, Nr.4, April 1957, pp.37-42 (USSR)

ABSTRACT: In order to develop the Krasnodarneft' (State All-Union
             Association of the Krasnodar Oil and Gas Industry) oil
             fields and raise the output of individual formations,
             their pressure has been maintained artificially for the
             last 10 years. As a result, an additional 2,764 thousand
             tons of crude oil have been recovered, of which 2,216
             thousand tons by the Khadyzhenneft', 473 thousand tons by
             the Chernomorneft', and 73 thousand tons by the Abinneft'.
             The above mentioned Administrations began their injection
             operations in 1945, 1951 and 1953, respectively. The
             total sum expended for the artificial maintenance of
             pressure in the formations amounted to 160 million rubles,
             including the cost of converting production wells to
             injection wells. Table 1 shows a detailed breakdown of
Card 1/3   this sum as recorded by Khadyzhenneft', Chernomorneft' and

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93-4-10/20

Some Indices Reflecting the Efficiency of Pressure-Maintainance
Methods Used at the Krasnodarneft' Oil Fields. (Contd)

             Abinneft'. Table 2 shows the cost of 1 cu. m water,
             or 1,000 cu. m gas, or air used for maintaining the
             required formation pressure as recorded by the Khady-
             zhenneft', Chernomorneft', and Abinneft' Administrations.
             In this case the total cost amounted to 28,970 thousand
             rubles in 1955 and 31,753 thousand rubles in 1956. The
             author maintains basing himself on the data in Table 2,
             that by increasing the volume of air and gas pumped into
             the formations the cost of the driving medium was reduced
             11.4% as compared with 1955 figures. The author itemizes
             various expenditures in order to arrive at the per ton
             cost of the oil additionally produced as a result of the
             applied secondary recovery methods. The total production
             cost of the oil produced additionally in 1955 was 2,181
             thousand rubles and in 1956, 2,069 thousand rubles.
             Table 3 shows the itemized cost of the additional output
             of oil for 1955 and 1956. The fact that the expenditures
             increased at a faster rate than the additional oil pro-
Card 2/3   duction indicates that the effectiveness of the measures

S/117/61/000/012/002/002
A004/A101

AUTHOR: Klochko, V. S.

TITLE: On the efficiency of recovery of casting rejects

PERIODICAL: Mashinostroitel', no. 12, 1961, 34-35

TEXT: The author points out that casting rejects can be either recovered,
i.e. welded up, built up, etc. or the rejected parts are remelted and the parts
recast. Whether it is economically expedient to recover casting rejects depends
on the recovery costs. Therefore, the author introduces the conception of
"economically non-reparable" rejects, i.e. castings which it would not pay to
recover because of the costs involved, although from the technological viewpoint
such recoveries would be possible. A table shows an example where the percentage
of rejects was cut from 7 to 5%, while the non-reparable rejects rose from 3 - 4%
on account of an increase in the amount of castings that would be unprofitable
to recover . Other tables presented by the author reveal the dependence between
the growth in labor productivity and that of rejects, labor consumption of
manufacturing 1 ton of serviceable castings depending on the foundry size and
specialization level of the foundry respectively. To decide the problem of

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On the efficiency of recovery of casting rejects

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expediency of remelting rejects or their recovery, it is necessary to compare the costs for the recasting of rejects and for their recovery. The author presents a comparative calculation example of the above costs and draws the conclusion that the method of rating the production efficiency of foundry shops by the tonnage of casting rejects, as it was practised hitherto, does not present a clear picture of the efficiency, but that the amount of rejects should be expressed in cost, since in many cases, particularly in foundry shops with highly mechanized or automated casting equipment, it is more expedient to remelt the rejects than to recover them, the latter requiring often a great amount of manual work which is more expensive than e.g. recasting the parts on highly mechanized casting machines. There are 1 graph and 4 tables.

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13.294/

AUTHOR: Klochko, V, S,

TITLE: The principle of negligible effect of errors

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 4, 1962, 34,
            abstract 4G200 ("Tr. Khar'kovsk. inzh.-stroit. in-ta", 1961, no. 15,
            50-56)

TEXT: The mean-square error of the function $y = f(x, x_1, \ldots, x_n)$ of
independent arguments is equal to

$$m_y = \sqrt{(\partial f/\partial x)^2 m_x^2 + (\partial f/\partial x_1)^2 m_x^2 + \ldots + (\partial f/\partial x_n)^2 m_{x_n}^2}.$$

If the first component predominates over the rest, then $m_y \approx m = (\partial f/\partial x) m_x$.
As a measure of negligible effect of the other components the following criterion
is adopted:

$$k < \frac{\sqrt{\sum_{i=1}^{n} (\partial f/\partial x_1)^2 m_{x_1}^2 + \ldots + (\partial f/\partial x_n)^2 m_{x_n}^2}}{m},$$

Card 1/2

The principle of negligible effect of errors

whose estimate represents the purpose of the article. It is noted that different authors assume $k = 0.1 - 0.7$. The estimate $k = \sqrt{2\mu/m}$ is recommended, where $\mu = m/\sqrt{2\nu}$ is mean square error of determining m (ν is the number of excessive measurements). In selecting the value of predominating error on auxiliary allowances, the error caused by the limiting error of rounding allowance δ should be added to μ; it is equal to $\mu_\delta = \delta/2\sqrt{3}$. The corresponding nomogram for determining k as a function of μ is given, which was plotted on the basis of studying allowances of various instructions. At ν being unknown, it is proposed to assume μ equal to $0.07 - 0.1$ of the magnitude of m. In this case $k = 0.39 - 0.58$ ($k = 0.4$ is recommended). It is noted that k less than 0.3 is difficult to bring about. There are 21 references.

Z. Khaimov

[Abstracter's note: Complete translation]

Card 2/2

KLOCHKO, V.S.

Using low cement-content mortars for grouting supported areas.
Ugol' Ukr. 5 no.10:33-34 O '61.   (MIRA 14:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut organizatsii
i mekhanizatsii shakhtnogo stroitel'stva.
                        (Grouting)

KLOCHKO, Yu.S.

Characteristics of a study, using a rock catcher, of wells exploited simultaneously along the pump-compressor pipes and the annular space. Gaz. delo no.8:18-21 '64.
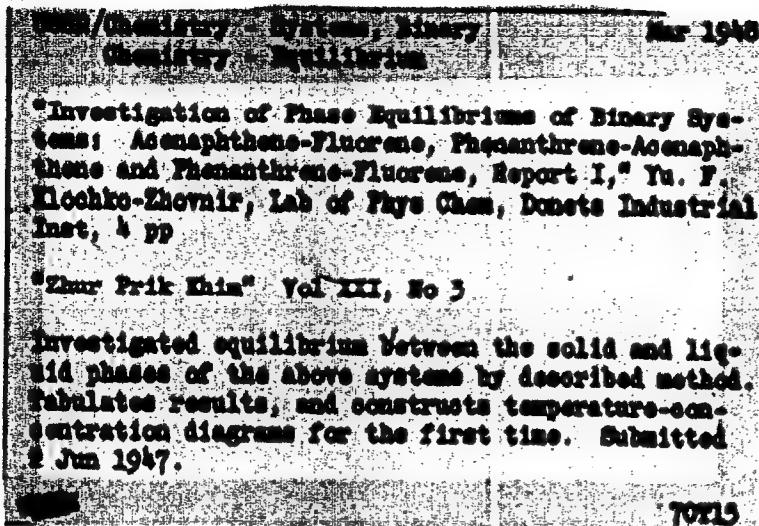
(MIRA 17:9)

1. Stryyskoye gazopromyslovoye upravleniye.

GINER, R.F.; TKACHUK, A.I.; KLOCHKO, Yu.S.

Investigations of wells simultaneously exploited with respect to pipes and annular space. Gaz. delo no.12:14-17 '63.   (MIRA 17:10)

1. Stryyskoye gazopromyslovoye upravleniye.

KLOCHKO-ZHCVNIR, YU. F.

Chem/Chemistry - Systems; Binary   Mar 1948
Chemistry   Equilibrium

"Investigation of Phase Equilibrium of Binary Systems: Acenaphthene-Fluorene, Phenanthrene-Acenaphthene and Phenanthrene-Fluorene, Report I," Yu. F. Klochko-Zhovnir, Lab of Phys Chem, Donets Industrial Inst, 4 pp

"Zhur Prik Khim" Vol XXI, No 3

Investigated equilibrium between the solid and liquid phases of the above systems by described method. Tabulates results, and constructs temperature-concentration diagrams for the first time. Submitted 8 Jun 1947.

70T15

KLOCHKO-ZHOVNIR, YU. F.   FA 67/49768

USSR/Chemistry - Binary System   Aug 49
Phase Rule

"Research on the Phase Equilibria of the Binary System: Acenaphthene - Fluoranthene, Phenanthrene + Fluoranthene, Fluorene - Fluoranthene and Naphthalene - Phenanthrene," Ya. F. Klochko-Zhovnir, Donets Ind Inst, 4½ pp

"Zhur Prik Khim" Vol XXII, No 8, 1292-1297

All four systems form mechanical mixtures rather than chemical compounds. They each have one eutectic: 66° for a 50-50 mixture of the first and fourth systems, 76° for a 53% phenanthrene mixture of the

USSR/Chemistry - Binary System (Contd)   Aug 49

second, and 75.5° for a 43% fluorene mixture of the third. Submitted 1 Nov 48.

67/49768

CA

The ternary system phenanthrene-acenaphthene-naphthalene. Ye. P. Kiselin-Zhuvak. *Doklady Akad. Nauk S.S.S.R.* 70, 210-651 1004 (in *C.A.* 44, 919z; 48, 22). — All the binary systems involved have been investigated previously, and all form simple eutectics with no compd. formation or solid soln. The ternary system is equally uncomplicated, with a ternary eutectic at 36° and consig. 36% phenanthrene, and 39.5% acenaphthene. The 2-phase lines connecting the ternary eutectic with the binary eutectics are all straight; this indicates the simplicity of the system.

Arild J. Miller

VAKHNIN, N.; SOLOV'YEV, N.; KLOCHKOV, A.

Reconstructing a two-row cow barn into a four-row barn. Sel'.
stroi. 15 no.9:4-6 S '60.   (MIRA 13:9)

1. Direktor sovkhoza "Nishegorodets" Dal'ne-Konstantinovskogo
rayona, Gor'kovskoy oblasti (for Vakhnin).. 2. Olavnyy inzhener
sovkhoza "Nishegorodets" Dal'ne-Konstantinovskogo rayona,
Gor'kovskoy oblasti (for Solov'yev). 3. Starshiy promb sovkho-
za "Nishegorodets" Dal'ne-Konstantinovskogo rayona, Gor'kovskoy
oblasti (for Klochkov).
                    (Arctic regions--Fur farming)

KLOCHKOV, A., kand.tekhn.nauk, dotsent; KARYAKIN, V., assistent

Using gasoline and condensate as fuel for motor-vehicle engines.
Trudy SADI no.16 pt.1.:156-162 '59. (MIRA 13:11)
(Gasoline) (Yelshanka--Condensate oil wells)

KLOCHKOV, A.A., aspirant

Obtaining weakly virulent strains of Brucella through the action of ultraviolet rays. Veterinariia 41 no.2:31 F '64.

(MIRA 17:12)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

PATSKEVICH, I.R., kandidat tekhnicheskikh nauk; KLOCHKOV, A.I.; ERREKIN,
P.N., inzhener; RAUTINA, V.A.; SHAKHMATOV, V.N.

Investigating the causes of paint deterioration in the vicinity of
welds. Top.svar.proizv. no.7:82-93 '55.   (MIRA 10:3)
         (Paint) (Tractors—Welding)

KLOCHKOV, A.I., kand.tekhn.nauk

Organizing the maintenance of motor vehicles on collective farms of Saratov Province. Trudy SADI no.16 pt.1:211-219 '59.

(MIRA 13:11)

(Saratov Province--Collective farms)
(Saratov Province--Motor vehicles--Maintenance and repair)

KLOCHKOV, A.I.; KUNINA, L.A.

Oligodynamic action of chemically pure metallic silver. Mikrobiologiia
29 no.3:428-432 My-Je '60.
(MIRA 13:7)

1. Chelyabinskiy politekhnicheskiy institut.
    (SILVER)   (METALS AS ANTISEPTICS)

25384
S/080/61/034/002/003/025
A057/A129

18.1300

AUTHORS: Klochkov, A.I.; Karelin, N.A.; Borovskaya, K.I.

TITLE: Effect of deformation by sliding and twinning on the rate of
              dissolving of zinc single crystals in hydrochloric acid

PERIODICAL: Zhurnal Prikladnoy Khimii, v 34, no 2, 1961, 272-277

TEXT: The effect of the orientation angle and deformation by sliding
or twinning of zinc single crystals on the dynamics of the dissolving rate
in 1 M HCl solutions was investigated. This problem is of interest since
zinc and zinc alloy articles are manufactured using various types of plastic
deformation, and corrosion resistance is effected by changes in the crystal-
line state. Corrosion of zinc polycrystals was investigated by several
authors, but only Ye.M. Zaretskiy (Ref 2: ZhPKh, 24, 5-8, 482 (1951), and
Ref 3: ZhPKh, 24, 2, 619 (1951)) studied the effect of deformation on
corrosion. Zinc single crystals were investigated already by M. Straumainis

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Effect of deformation ...

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those published by M. Straumainis (Ref 10). In a second series deformed
single crystals were investigated by sliding and twinning, and the corroded
crystals were photographed in polarized light (Fig 6, 8). The obtained
results demonstrate that deformation by sliding increases the dissolving
rate. Between the sliding faces some "weak" segments were formed and were
strongly corroded. Deformation by twinning increases also the dissolving
rate. Corrosion occurs in the zinc twins formed (in Fig 8 the deep bonds
of twins are well visible) which have a higher chemical activity not only
in the partition of the initial structure and the formed twin, but mainly
in the bulk of the latter. Since twins formed by deformation are less
corrosion resistant and appear after mechanical treatments of zinc or zinc
alloy articles, thermal treatment should be carried out to destroy the
twins formed by mechanical processing. Conditions for the thermal after-
treatment should be investigated on zinc single crystals, since these are
more suitable than polycrystals for this purpose. In connection with in-
vestigations of the corrosion resistance of zinc polycrystals the follow-
ing authors are mentioned: S.Ya. Popov (Ref 1: "Vliyaniye nekotorykh

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Effect of deformation ...

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kationnykh i anionnykh dobavok na korroziyu tsinka i kadmiya v rastvore solyanoy kisloty" ("Effect of some cationic and anionic admixtures on corrosion of zinc and cadmium in hydrochloric acid solution"). Novocher-kasskiy politekhn. inst. im. Ordzhonikidze (Novocherkassk "Order of the Red Banner of Labor" Polytechnic Institute imeni Sergo Ordzhonikidze), Promstroyizdat, 25 (1954)), V.I. Rodionova (Ref 4: Dissertation M (1955)), M.P. Slavinskiy (Ref 5: "Fiziko-khimicheskiye svoystva elementov" ("Physico-chemical properties of elements"), Metallurgizdat, 170 (1952)), G.V. Akimov (Ref 8: "Osnovy ucheniya o korrozii i zashchite metallov" ("Principles of the science of corrosion and protection of metals"), Metallurgizdat (1946)). There are 9 figures and 14 references: 13 Soviet-bloc and 1 non-Soviet-bloc. The English-language reference reads as follows: E.A. Anderson, M.L. Fuller, Metals and Alloys, 10, 9, 282 (1939).

ASSOCIATION: Kafedra khimii Chelyabinskogo politekhnicheskogo instituta (Department of Chemistry of the Chelyabinsk Polytechnic Institute)

Card 4/6

KLOCHKOV, A.M.

Connection between neurotic states and conditions of their emergence.
Zhur. vys. nerv.deiat. 11 no.5:908-914 S-O '61.   (MIRA 15:1)

1. Laboratory of the Physiology and Pathology of the Higher Nervous
Activity, Institute of Normal and Pathological Physiology, U.S.S.R.
Academy of Medical Sciences, Moscow.
     (NEUROSES)   (CONDITIONED RESPONSE)

KLOCHKOV, A. M.

USSR/Human and Animal Physiology (Normal and Pathological).   T-12
          Nervous System. Higher Nervous Activity. Behavior.

Abs Jour   : Ref Zhur - Biol., No 11, 1958, 51301

Author   : Klochkov, A.M.
Inst   : -
Title   : The Problem of Interrelationship Between Conditioned and
              Unconditioned Reflexes.

Orig Pub   : Zh. vyssh. nervn. deyat-sti, 1957, 7, No 2, 263-271

Abstract   : Investigations of secretory unconditioned reflexes (UR;
              food and acidic reflexes) in 6 dogs showed that in all
              animals the course of UR becomes intensified under the
              influence of positive conditioned reflexes (CR) during
              the period when unconditioned stimuli are in action.
              Yet under the influence of differentiation UR becomes less
              pronounced during the same period. However, under the
              influence of both positive and inhibitive CR the total
              magnitude of salivary secretion changed in different

Card 1/2   Lab Physiol. + Pathol. of Higher Nervous Activity Inst Normal
           and Pathological Physiology AMS USSR

KLOCHKOV, A. M., Cand Med Sci -- (diss) "Influence of cortical processes of excitation and inhibition on unconditional reflexes." Moscow, 1957, 11 pp (Academy of Medical Sciences USSR), 200 copies (KL, 36-57, 107)

KLOCHKOV, A. M

USSR/Soil Science. Soil Biology   J-2

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 43821

Author   : Klochkov A.M.
Inst   : Not Given
Title   : The Use of Organic Mineral Fertilizer Mixtures

Orig Pub : S. kh. Povolzh'ya, 1957, No 3, 27-30

Abstract : The results of three year tests with organic mineral mix-
           tures made at the agricultural experimental station and
           the kolkhozes of the Mordovian ASSR. Indications of the
           exactness of the experiment are not given.--V.V. Prokoshev

Card   : 1/1

USSR / Cultivated Plants. General Problems.
Abs Jour   : Ref Zhur - Biologiya, No 13, 1958, No. 58489

Author   : Klochkov, A. M.; Kostrov, K. A.; Koval'chuk, P. A.
Inst   : Not given
Title   : Occupied Fallows in Mordoviya

Orig Pub   : S.-kh. Povolzhya, 1957, No 12, 13-15

Abstract   : No abstract given

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6

KLOCHKOV, Aleksandr Mikhaylovich, kand. sel'khoz. nauk; KELIN, I.,
     red.; POPOVA, M., tekhn.red.

[The soil map and its use] Pochvennaia karta i ee ispol'zovanie.
Saransk, Mordovskoe knizhnoe izd-vo, 1960. 47 p. (MIRA 15:6)
               (Mordovia—Soils—Maps)

SIROTIN, Yu.P., kand.sel'skokhoz. nauk; STAROV, M.V., agronom; PRONIN, M.Ye., prof.; KOSTROV, K.A., kand.sel'skokhoz. nauk; KLOCHKOV, A.M., kand. sel'skokhoz. nauk

Fall supplementary fertilizers for winter crops. Zemledelie 25 no.9: 16-34 S '63.   (MIRA 16:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya (for Sirotin). 2. Zaveduyushchiy Mikhaylovskim agrotekhnicheskim uchastkom Stavropol'skogo kraya (for Starov). 3. Voronezhskiy sel'skokhozyaystvennyy institut (for Pronin). 4. Mordovskaya gosudarstvennaya sel'skokhozyaystvennaya opytnaya stantsiya (for Kostrov, Klochkov).
                    (Wheat—Fertilizers and manures)
                    (Rye—Fertilizers and manures)

L 20794-65   EWO(j)/EWO(r)/EWT(l)/FS(v)-3/EWO(v)/EWO(a)/EWA(c)   Po-5/Po-4/
Pa-4   AFWL/ASD(a)-5/AEDC(a)/ASD(f)-3/JWD/AFTC(a)/ESD(t)   NO
ACCESSION NR: AR4046196   8/0299/64/000/016/A013/A013

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 16A109

AUTHOR: Kovalenko, A. F.; Kaplan, Ye. Ya.; Boyarkin, V. P.;
Klochkov, A. M.

TITLE: Pathogenesis of hemodynamic disorders during supersonic
airflow action

CITED SOURCE: Sb. Aviats. i kosmich. meditsina. M., 1963, 252-254

TOPIC TAGS: dog, supersonic airflow, biological effect, blood,
hemodynamics, blood pressure, cardiovascular system, nervous system,
noise

TRANSLATION: The effect of supersonic airflow (1600 km/hr) on the
cardiovascular and nervous systems of dogs was determined in acute
and chronic experiments. Shifts in cardiac muscle excitability and
conductivity took place during airflow action. An increase in
arterial pressure (by 10-15%) and blood circulation rate (by 15-20%)
during increase in airflow speed took place due to the noise factor

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ACCESSION NR: AR4046196

(120 db). During direct airflow action, arterial pressure decreases
(by 30-35%) and blood circulation rate is retarded (by 20-30%).
After 30-60 min the hemodynamic disorders are similar to those of
traumatic shock. Pressor reaction to carotid artery constriction was
reduced by 20-30%. Excitability of the vasomotor and respiratory
center increased under the influence of airflow noise and decreased
during airflow impact action. The functional state of the sympathetic
nerves changed in a similar manner. No significant changes were
observed on the part of the parasympathetic innervation state during
airflow noise and impact action. Airflow noise caused intensification
of brain bioelectric activity. Bioelectric activity change in the
cortex during impact airflow action attests to development of inhibit-
ing processes. Activity of subcortical formations increased in some
animals and decreased in others. Airflow effect on the organism was
insignificant in cases when special protection was used.

SUB CODE: LS   ENCL: 00

Card 2/2

KLOCHKOV, A.M., kand. sel'skokhozyaystvennykh nauk

Use of phosphate meal. Zemledelie 26 no.6:31-33 Je '64.
(MIRA 17:8)

1. Morodovskaya gosudarstvennaya sel'skokhozyaystvennaya
opytnaya stantsiya.

L 50066-65   EWG(j)/EWG(r)/EWG(v)/EWG(a)-2/EWG(c)/EWT(1)/PS(v)-3/FSS-2   DD
ACCESSION NR: AP5017648   UR/0219/65/060/007/0007/0012
                                                 612.67-063:612.827-089   3/

AUTHOR: Gazenko, O. G.; Grigor'yan, R. A. Kitayev-Smyk, L. A.; Klochkov, A. M.

TITLE: Increased extensor tonus during weightlessness in cats with fully or
partially removed cerebellum

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 7, 1965, 7-12

TOPIC TAGS: weightlessness, biological effect, cat, cerebellum, vestibular reflex,
extensor reflex, parabolic flight

ABSTRACT: To elucidate the role of the cerebellum in the formation of delayed and
motor reactions to weightlessness, experiments were conducted on 4 cats, one with
a completely removed cerebellum, another with a partially removed cerebellum, and 2
intact controls. Weightlessness was produced during parabolic flights in a special
aircraft which was equipped with a test chamber and photographic equipment. Each
animal was exposed to weightlessness 12 times. The duration of each weightless
period was 28—30 sec, preceded and allowed by 1.8—2.0 g for up to 15 sec. In some
experiments weightlessness was created without prior accelerations, and in others
blindfolds were used during the tests. Vestibular tests were conducted before and

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L 60066-65
ACCESSION NR: AP5017648

after weightlessness in both sighted and blind condition. Lifting reflexes of the head and extremities, jump preparation reflexes, reactions to tumbling, and righting reflexes were studied. Fig. 1 of the Enclosure shows how experimental and control animals reacted to weightlessness. The experiments showed that in cats with fully or partially removed cerebellums there was extensor rigidity during weightlessness. Similar manifestations were noted in intact animals, but to a lesser degree, and they disappeared upon adaptation to weightlessness. Animals with partially removed cerebellums showed sharply increased vestibular reflexes compared to intact animals or those with fully removed cerebellums. Animals with partially removed cerebellums also showed increased aggressiveness. Orig. art. has: 3 figures.   (CD)

ASSOCIATION: none

SUBMITTED: 27Feb64   ENCL: 0?   SUB CODE: LS

NO REF SOV: 006   OTHER: 012   ATD PRESS: 4058

Card 2/4

L. 60066-65

ACCESSION NR: AP3017648

O

Fig. 1. Animals during weight-
lessness

I - Intact animal during the 10th
exposure to we'ghtlessness; II -
animal lacking cerebellum during
the 11th exposure to weight-

left hemisphere of the cerebellum
during the 12th exposure to
weightlessness.

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L 60066-65

ACCESSION NR: AP5017648

ENCLOSURE: 02

Fig. 2. Reaction to tumbling

I - Intact animal. a - released
from hand; b - after 0.25 sec;
c - after 0.5 sec (full turn);
d - after 0.75 sec; e - landing;
II - animal lacking cerebellum;
III - animal lacking half the
cerebellum. a - released from
hand; b - after 0.125 sec; c - af-
ter 0.25 sec (full turn); d - af-
ter 0.75 sec; e - landing.

Card 4/4

KLOCHKOV, A.P., inzh., red.; KHRENOV, A.S., inzh., red.; MUNITS, A.P., red.izd-va; PROSAKOVA, T.A., tekhn.red.

[Production standards for planning and research work paid for according to a piece-rate system] Normy vyrabotki na proektnye i izyskatel'skie raboty, oplachivaemye sdel'no. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Pt.13 [Electric power and blower stations; furnaces] Elektricheskie i vozdukhoduvnye stantsii, kotel'nye. Section 3. [Hydroelectric power stations] Gidroelektrostantsii. 1958. 67 p.

(MIRA 12:7)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsiy.
   (Heat engineering)   (Hydroelectric power stations)

14(6);8(6)   PHASE I BOOK EXPLOITATION   SOV/1716

Vsesoyuznyy institut "Gidroenergoproyekt." Leningradskoye otdeleniye

Turbinnoye oborudovaniye gidroelektrostantsiy; rukovodstvo dlya
    proyektirovaniya (Turbine Installations of Hydroelectric Power
    Stations; Design Manual) 2nd ed., rev. and enl. Moscow,
    Gosenergoizdat, 1958. 519 p. 6,200 copies printed.

Additional Sponsoring Agency: USSR. Ministerstvo elektrostantsiy.

Ed. (Title page): A.A. Morozov (Deceased), Doctor of Technical Sciences,
    Professor; Compilers: F.V. Anosov, Docent, Candidate of Technical
    Sciences; I.M. Gamus, Engineer; Yu.Ye. Garkavi, Engineer;
    G.S. Gol'shman, Engineer; A.A. Yevdokimov, Engineer; A.S. Yeremeyev,
    Engineer; A.Ye. Zhmud', Engineer; N.N. Kelareva, Engineer;
    A.P. Klochkov, Engineer; A.G. Lang, Engineer; E.Ya. Mengel', Engineer;
    A.A. Morozov, Professor, Doctor of Technical Sciences;
    G.M. Serebryakov, Engineer; I.N. Smirnov, Docent, Candidate of Tech-
    nical Sciences; M.I. Smirnov, Docent; D.S. Shachavelev, Professor,
    Doctor of Technical Sciences; N.N. Shcherbinskaya, Engineer;
Card 1/13

Turbine Installations (Cont.)   SOV/1716

(Leningrad Division, "Gidroenergoproyekt" Institute, Leningradskiy Politekhnicheskiy institut [Leningrad Polytechnical Institute], Leningradskiy Metallicheskiy zavod [Leningrad Metalworking Plant] Plant "Elektrosila", and Zavod pod"yemno-transportnogo oborudovaniya [Hoisting and Transport Equipment Plant]; Editorial Board: A.A. Morozov (Chief. Ed.) A.P. Klochkov, N.N. Kelareva, N.N. Kovalev; Ed.: A.L. Mozhevitinov; Tech. Ed.: A.A. Zabrodina.

PURPOSE: This book is a manual for engineers and technicians engaged in the design of hydroelectric power plant equipment, and also for students of power and power machine-building institutes and departments.

COVERAGE: The manual contains materials on turbine installations needed for designing hydroelectric power stations. Information based on modern achievements in Soviet turbine building are presented. Hydraulic designs of turbine flow passages and plotting of operating characteristics are discussed. Data are presented on turbine speed regulation and automatization of hydromechanical equipment, and on turbine auxiliary equipment, generators,

Card 2/13

Turbine Installations (Cont.)   SOV/1716

installation and repair. A section of the book is devoted to tabulated data and cross section drawings of various Soviet and non-Soviet turbine installations of hydroelectric power stations. Information on testing of turbines and technical conditions for designing and specifications for supplying adjustable-blade, radial-axial [mixed flow] and bucket-type turbines are presented in Appendixes 1 and 2. Appendix 3 contains conversion tables for measures. The Director of the "Gidroenergoproyekt" Institute, Professor A.N. Voznesenskiy, Director P.M. Yanovskiy of the Leningrad Division of the Institute, and Chief Engineer B.M. Lyubchenko, of the Institute's Department of Standard Designs, rendered great assistance in organizing the work on the second edition. The Editorial Board thanks Professors F.F. Gubin, V.S. Kvyatkovskiy, and N.M. Shchapov, and Docent M.M. Orakhelashvili for comments on the first edition. There are no references.

Card 3/13

Turbine Installations (Cont.)   SOV/1716

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PART II.   TURBINE REGULATION AND
AUTOMATIZATION OF TURBINE-GENERATOR SETS

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PART III.   AUXILIARY EQUIPMENT OF HYDROELECTRIC POWER STATIONS

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Turbine Installations (Cont.)   SOV/1716

Ch. 21. Cranes of Hydroelectric Power Stations

AVAILABLE: Library of Congress   OO/jab
Card 13/13   6/19/59

ABSTRACT: According to the author, there is no need to compute
             the full runaway speed of the rotor of a hydrogenera-
             tor, if the distributor of the turbine is reliable
             and its closing is secured by the simultaneously-
             acting emergency valve and emergency oil-pressure
             installation. The "Uralelektroapparat" plant reports
             that the weight of the rotor of the Krasnoyarsk GES
             and, consequently, the price of generators could be
             considerably reduced if the speed of the rotor was
             computed on a 160% increase in the number of normal
             revolutions instead of 200%. The author also advises
             actuating the emergency valve immediately and the
Card 1/2

80V/98-59-3-9/17

The Problem of the Performance Reliability of the Regulator and
Distributor of a Hydraulic Turbine

oil-pressure installation as soon as the number of
revolutions reached 115-120% of the normal number.
The author suggests cancelling the GOST provision
calling for manufacturing plants to run the genera-
tor in the "racing regime" for 2 minutes. Turbine-
construction plants must intensify research on
preventing the turbine from racing.

Card 2/2

TODOROV, T.; KLOCHKOV, B.

Theinfluence of precipitation and the agricultural plants on the
surface runoff of the precipitation waters and soil erosion.
Khidro i meteorolog no.1:79-78 '60.   (EEAI 10:1)
        (Precipitation (Meteorology))
        (Plants)   (Erosion)   (Runoff)

KLOCHKOV, B.,inzh.; KORYAKOV, V.,inzh.

An honorary title imposes great responsibility. Avt. dor. 23 no.5:4-5
My '60.
(MIRA 13:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut svyazi.
(Moscow--Road construction workers)

KLOCHKOV, Boris

Results from studying certain types of terraces for planting orchard trees. Selskostop nauka [2] no. 2: 206-215 '63.

USPENSKIY, V.A.; RADCHENKO, O.A.; GLEBOVSKAIA, Ye.A.; SHISHKOVA, A.P.;
MEL'TSANSKAYA, T.N.; INDENBOM, F.B.; Prinimali uchastiye:
KOLOTOVA, L.F., khimik; CHAGINA, T.P., tekhnik; MASKINA, T.B.,
laborant; VIKULINA, M.M., laborant; POLOVNIKOVA, I.A., fizik;
PETROV, A.K., tekhnik; PONOMAREV, B.P., laborant; KHYAMYALYAYNIN,
L.B., laborant; KLOCHKOV, B.N., laborant; RAGINA, G.M., vedushchiy
red.; SAFRONOVA, I.M., tekhn.red.

[Basic processes of the transformation of bitumens in nature
and the problems of their classification] Osnovnye puti pre-
obrazovaniia bitumov v prirode i voprosy ikh klassifikatsii.
Leningrad, Gos.nauchno-tekhn.izd-vo neft.i gorno-toplivnoi
lit-ry Leningr.otd-nie, 1961. 314 p. (Leningrad. Vsesoiuznyi
nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy,
no.185).   (MIRA 15:4)

                    (Bitumen—Geology)

KLOCHKOV, B.I.

Experimental determination of the efficiency of a motor
vehicle wheel. Avt.prom. no.8:4-6 Ag '60.   (MIRA 13:8)

1. Stalingradskiy mekhanicheskiy institut.
          (Motor vehicles--Wheels)

KLOCHKOV, B.I.

Traction diagram for motor vehicles considering the efficiency
of driving wheels. Avt. prom. 28 no.7:16-18 Jl '62.
(MIRA 16:6)

1. Volgogradskiy mekhanicheskiy institut.
(Motor vehicles—Dynamics)

KLOCHKOV, B.V., inzhener.

Constructing bridge support foundations using boxes dropped into
the water. Avt.dor. 19 no.4:22-23 Ap '56.   (MLRA 9:8)
(Bridge construction)

KLOCHKOV, B.V., insh.; KOHYAKOV, V.P., insh.

Making reinforced concrete balustrades. Avt.dor. 22 no.8:14
Ag '59.   (MIRA 12:11)
    (Concrete construction--Formwork)

KLOCHKOV, B., inzh.

Factors in assembling precast reinforced concrete bridge spans.
Avt. dor. 22 no.9:10-11 S '59.   (MIRA 12:12)
        (Bridges, Concrete) (Precast concrete construction)

KLOCHKOV, B.Y., inzh.; KORYAKOV, V., inzh.

Introduction of new techniques and the role of research and
norm-setting centers. Avt.dor. 23 no.3:3 of cover Mr 60.
(MIRA 13:6)

(Road construction)

KLOCHKOV, B.Y., inzh.

Constructing precast reinforced concrete highway viaducts. Transp. stroi. 10 no.4:24-27 Ap '60. (MIRA 13:9)
(Viaducts)

FISHER, O.S.,insh.; PANKRATOV, V.M.,insh.;KLOCHKOV, B.V.

Modern designs of span structures. Avt.dor. 23 no.11:15-17
N'60.   (MIRA 13:11)
          (Bridges, Concrete) (Viaducts)

KLOCHKOV, B.I., assistent

Investigating the efficiency and skidding of an automobile wheel.
Izv.vys.ucheb.zav.; mashinostr. no.4:154-160 '61.   (MIRA 14:6)

1. Stalingradskiy mekhanicheskiy institut.
                (Automobiles—Wheels)

CHARUYSKIY, A. P.; KLOCHKOV, B. V.; BULANTSEV, V. I.

Suspended assembly of spans with dry joints. Avt. dor. 25
no.10:17-19 O '62.   (MIRA 15:10)

(Bridge construction)

DUDCHENKO, N.P., inzh.; KLOCHKOV, B.V., inzh.; KORYAKOV, V.P., inzh.

Construction of temporary footings out of reinforced concrete pipes or shells. Transp. stroi. 12 no.8:20-22 Ag '62.

(MIRA 15:9)

(Bridges—Foundations and piers)
(Precast concrete construction)

KLOCHKOV, B.V., insh.; KORYAKOV, V.P., insh.; IVANOV, S.S., insh.

The concrete reinforcement worker I.A. Vivchar and his brigade
of communist labor. Transp. stroi. 12 no.9:7-8 S '62. (MIRA 16:2)
(Reinforced concrete)

FISHER, Grigoriy Semenovich; KLOCHKOV, Boris Vasil'yevich;
GIBSHMAN, M.Ye., red.

[Prestressed bridges of manufactured elements] Predvari-
tel'no napriashennye mosty iz elemenotov zavodskogo izgo-
tovleniia. Moskva, Transport, 1964. 140 p.
(MIRA 17:5)

KLOCHKOV, D. S.

FLEROV, G. V., KLOCHKOV, D. S., SKOBKIN, V. S., and TRET'YEV, V. V.

(Acad. Sci. USSR)

"On the Stability of Proton,"

paper submitted at the All-Union Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27 Nov 57.

· KLOCHKOV, D.S.

JTHORS: Flёrov, G. N., Corresponding Member AN USSR,   20-1-19/58
           Klochkov, D. S., Skobkin, V. S., Terent'yev, V. V.

TITLE: The Spontaneous Fission of Th^{232} and the Stability of
           Nucleons (Spontannoye deleniye Th^{232} i stabil'nost' nuklonov)

BSTRACT: First the authors shortly report on respective earlier works.
           Many a thing spoke in favor of the determination of the half-
           life period of the spontaneous fission of Th^{232} by means of
           an essential increase of the sensitiveness of the method.
           Such an increase of the sensitiveness can be reached by an
           increase of the total quantity of experimental material as
           well as by a decrease of the background. The advantages of
           proportional counters are mentioned. The counters used here
           were produced of thin aluminum tubes. Thorium was deposited
           in form of ThO$_2$ with bakelite lacquer on inner surface of
           the semi-cylindrical grooves in the cathode of the counter.
           As anode served Nichronium wires with a diameter of 50 μ.
           The counters were filled with methane and had a wide
           proportionality range. For the increase of the total quantity
           of the experimental material some counters of the same type
Card 1/2   were used. Special attention was paid to the decrease of the

The Spontaneous Fission of Th^{232} and the Stability of Nucleons   20-1-19/58

background. Possible reasons for errors e. g. neutrons, are
pointed out. From the measurements discussed here the
following results: the half-life period of Th^{232} is (if
thorium suffers a spontaneous fission at all) more than 10^{21}
years. If we accept the condition that thorium nuclei, because
of the decay of a nucleon, are divided into lighter particles
the life of the compound nucleon is more than 10^{23} years. By
means of the here discussed method for the registration of
rare fission acts the authors also searched for transuranium
elements in monazite minerals. For this purpose monazites from
different deposits of an age of more than 10^{9} years were in-
vestigated. For the plutonium content a value of $< 10^{-10}$% was
obtained. There are 5 references, 1 of which is Slavic.

SUBMITTED: October 4, 1957

AVAILABLE: Library of Congress

Card 2/2

KARAMYAN, A.S. [deceased]; DORCFEYEV, G.A.; KLOCHKOV, D.S.

Neutron emission from strongly excited nuclei. Zhur. eksp. i teor.
fiz. 40 no.4:1004-1006 Ap '61. (MIRA 14:7)
(Nuclear reactions) (Neutrons)

KLOCHKOV, D.V.

"On Some Physiological Age Processes in the Training of Orel
Race Horses";

dissertation for the degree of Candidate of Agricultural Sciences
(awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2,
1963, pp 232-236)

KLOCHKOV, D.V.

Diurnal activity of minks of various genotypes and their
reaction to photoperiodic conditions. Biul. MOIP. Otd. biol.
70 no.2:146-112 Mr-Ap '65.   (MIRA 18:5)

BELYAYEV, D.K.; KLOCHKOV, D.V.; ZHELEZOVA, A.I.

Effect of light on the reproductive function and fecundity of the
mink (Mustela vison Schr.). Biul. MOIP. Otd. biol. 68 no.2:107-125
Mr-Ap '63.   (MIRA 17:2)

KLOCHKOV, G.; SMIRNOV, N.

Greater Vladivostok. Zhil stroi. no.6:8-9 Je '61.
(MIRA 14:7)

1. Nachal'nik Tekhnicheskogo upravleniya Glavvladivostokstroya
(for Klochkov). 2. Glavnyy arkhitektor Vladivostoka (for
Smirnov).

(Vladivostok--Construction industry)

KLOCHKOV, G.A.; KHLISTUNOV, V.N.

High-speed digital millivoltmeter. Priborostronenie no.11:
16-20 N '63.   (MIRA 16:12)

ACC NR: AR6027478   SOURCE CODE: UR/0044/66/000/005/V043/V044

AUTHOR: Klochkov, C. D.; Nikolayev, I. A.; Puzyrevskiy, V. F.; Simonovich, I. V.

TITLE: A specialized digital computer

SOURCE: Ref. zh. Matematika, Abs. 5V311

REF SOURCE: Sb. Vopr. vychisl. matem. i vychisl. tekhn. Rostov-na-Donu, Rostovsk. un-t, 1965, 136-142

TOPIC TAGS: digital computer, algebraic equation, linear equation, special purpose computer, computer design

ABSTRACT: A specialized digital computer developed by the RCU computer center and designed for solution of the following system of linear algebraic equations

$$\sum_{j=1}^{4} \{y_{ij}x_j - (z_i - y_{ij})\} = 0, \qquad \sum_{i=1}^{4} x_i = 1. \qquad (1)$$

is described. In this system, $x_i (i = 1,2,3,4)$, independent weighing concentration; $z_i (i = 1,2,3,4)$, assigned parameters; $y_{ij} (i,j = 1,2,3,4)$, coefficients obtained as solutions of the following system of linear algebraic equations:

$$\sum_{k=1} y_{ik}x_{kj} = z_i x_{ij} \quad (j = 1,2,3,4,6). \qquad (2)$$

Card   1/2   UDC: 681.142.001.3:51

ACC NR: AR6027478

$$\sum_{i=1}^{4} y_{4i}x_{ij} = z_i|x_{ij} \quad (j=1,2,3,4,5).$$ (3)

$$\sum_{i=1}^{4} y_{4i}x_{ij} = z_i|x_{ij} \quad (j=1,2,3,4,5).$$ (4)

$$\sum_{i=1}^{4} y_{4i}x_{ij} = z_i|x_{ij} \quad (j=1,2,3,4,5).$$ (5)

Equation systems (1), (2), (3), (4), and (5) are overdetermined and of the same kind. The method of least squares is used to reduce them to normal. The normalized equation systems obtained are solved with the compact Gauss scheme. The article presents the bit circuit of the internal memory cell consisting of 28 bits, the operational scheme of the 7-operation specialized digital computer, and a block diagram of the wired-in program. The computer block diagram consists of input and output units, memory devices, and a computer control system. All the devices are based on three typical electronic circuits: triggers, driver amplifiers, and gates. All the electronic circuits are designed to incorporate semiconductor and ferrite elements. [Translation of abstract] V. Slakperov

SUB CODE: 09, 12

DOVGANOVSKIY, N.P.; KLOCHKOV, G.D.; NIKOLAYEV, I.A.; SINEL'NIKOV, D.Ye.;
    YATSENKO, M.I.

Application of electronic computers in the calculation of
transient and steady processes in some types of electric
circuits. Trudy RIIZHT no.44:201-215 '64.

(MIRA 19:1)

ACC NR: AR6028108   SOURCE CODE: UR/0372/66/000/005/V043/V044

AUTHOR: Klochkov, G. D.; Nikolayev, I. A.; Puzyrevskiy, V. F.; Simonovich, I. V.

TITLE: A special purpose digital computer

SOURCE: Ref. zh. Kibernetika, Abs. 5V311

REF SOURCE: Sb. Vopr. vychisl. matem. i vychisl. tekhn. Rostov-na-Donu, Rostovsk. un-t; 1965, 136-142

TOPIC TAGS: digital computer, special purpose computer, computer design

ABSTRACT: A special-purpose digital computer is described which is intended for the multiple solution of the following system of linear algebraic equations

$$\sum_{j=1}^{4} [y_i x_i - (z_i - y_{ij})] = 0, \quad \sum_{i=1}^{4} x_i = 1. \tag{1}$$

In this system x_i (i=1,2,3,4) are the unknown weight concentrations; z_i (i=1,2,3,4) are the given parameters; y_{ij} (i,j=1,2,3,4) are the coefficients obtained as solutions of the following systems of linear algebraic equations:

$$\sum_{i=1}^{4} y_i x_{ij} = z_{ij} x_{ij} \cdot (j = 1,2,3,4,5), \tag{2}$$

Card 1/2   UDC: 681.142.001.3:51

ACC NR: AR6028108

$$\sum_{i=1}^{4} y_{2i}x_{ij} = z_2 \mu_{2j} \quad (j=1,2,3,4,5),\tag{3}$$

$$\sum_{i=1}^{4} y_{3i}x_{ij} = z_3 x_{3j} \quad (j=1,2,3,4,5),\tag{4}$$

$$\sum_{i=1}^{4} y_{4i}x_{ij} = z_4 x_{4j} \quad (j=1,2,3,4,5).\tag{5}$$

Systems (1), (2), (3), (4), (5) are overdetermined and are of the same kind. They are reduced to the normal form by the least-squares method. The systems of normal equations thus obtained are solved by the compact Gauss method. The worth length of an immediate-across memory cell consisting of 28 characters is given. Transistor-magnetic flip-flop, driver amplifier, and gated circuits are used in all computer components. [Translation of abstract] V. Alekperov

SUB CODE: 09

Card 2/2

AUTHOR: Klochkov, I.   27-58-6-19/35

TITLE: Foremen Are Learning (Mastera uchatsya)

PERIODICAL: Professional'no-Tekhnicheskoye Obrazovaniye, 1958, Nr 6,
             p 23-24 (USSR)

ABSTRACT: Foremen in charge of industrial education have a very important
             role to fulfill, and to cope with it they must study latest
             developments in various fields of industry. In 1955, about
             3,000 foremen were studying in different courses. In 1957,
             this number increased to 9,000. Each oblast' has a special
             Labor Reserves Administration which organizes courses for
             foremen who visit plants and mines and are shown the most
Card 1/1   modern methods of work.

             1. Education-USSR   2. Instructors-Training

KLOCHKOV, I.

Textbooks, aids, and posters from the "Vysshaia shkola"
Publishing House. Prof.-tekh. obr. 22 no. 12:10-11 D '65
(MIRA 19:1)